

AMENDMENTS TO THE CLAIMS**Listing of the claims:**

Following is a listing of all claims in the present application, which listing supersedes all previously presented claims:

Claims 1-5. (Canceled)

6. (Previously Presented) A mobile communication system having a plurality of radio packet channels having different transmission rate from each other between each of a plurality of base stations and a mobile station, said mobile station comprising:

means for measuring a signal quality of a receive signal from each of the plurality of base stations;

means for assigning packet rate relating to said signal quality thus measured;

means for transmitting said packet rate to a respective base station of the plurality of base stations; and

data terminal for transmitting and receiving data to and from the base station with said assigned packet rate,

wherein said signal quality is defined by difference $\Delta S = S_1 - S_{\max}$, where S_1 is level of pilot signal transmitted by the base station which the mobile station belongs received at said mobile station, S_{\max} is the highest level among S_2 through S_n of the pilot signals from adjacent base stations received at said mobile station.

Claims 7 and 8. (Canceled)

9. (Previously Presented) A mobile communication system having a plurality of radio packet channels having different transmission rate from each other between each of a plurality of base stations and a mobile station, said mobile station comprising:

means for measuring a signal quality of a receive signal from each of the plurality of base stations;

means for assigning packet rate relating to said signal quality thus measured;

means for transmitting said packet rate to a respective base station of the plurality of base stations; and

data terminal for transmitting and receiving data to and from the base station with said assigned packet rate,

wherein highest packet channel is assigned so that the following inequality is satisfied; $P_{\max} \geq I - L + SIR - G + A$; where P_{\max} is maximum transmit power of a packet channel, L is propagation loss measured at said mobile station, I is interference power measured at said mobile station, SIR is desired SIR for each packet channel, G is process gain for said each packet channel, and A is compensation factor for compensating characteristics of antenna and equipment.

10. (Previously Presented) A mobile communication system having a plurality of radio packet channels having different transmission rate from each other between each of a plurality of base stations and a mobile station, said mobile station comprising:

means for measuring a signal quality of a receive signal from each of the plurality of base stations;

means for assigning packet rate relating to said signal quality thus measured;

means for transmitting said packet rate to a respective base station of the plurality of base stations; and

data terminal for transmitting and receiving data to and from the base station with said assigned packet rate,

wherein said base station comprises:

means for receiving packet rate from said mobile station,

means for determining number of frames for continuous transmission for said each packet rate,

means for transmitting said number of frames thus determined to said mobile station so that communication with said mobile station is carried out with a determined packet rate and the determined number of frames.

11. (Previously Presented) A mobile communication system having a plurality of radio packet channels having different transmission rate from each other between each of a plurality of base stations and a mobile station, said mobile station comprising:

means for measuring a signal quality of a receive signal from each of the plurality of base stations;

means for assigning packet rate relating to said signal quality thus measured;

means for transmitting said packet rate to a respective base station of the plurality of base stations; and

data terminal for transmitting and receiving data to and from the base station with said assigned packet rate,

wherein said base station comprises:

means for receiving packet rate from said mobile station,

means for determining number of frames for continuous transmission for said each packet rate,

means for transmitting said number of frames thus determined to said mobile station so that communication with said mobile station is carried out with a determined packet rate and the determined number of frames,

wherein said number of frames to be transmitted continuously is adaptively controlled.

12. (Previously Presented) A mobile communication system having a plurality of radio packet channels having different transmission rate from each other between each of a plurality of base stations and a mobile station, said mobile station comprising:

means for measuring a signal quality of a receive signal from each of the plurality of base stations;

means for assigning packet rate relating to said signal quality thus measured;

means for transmitting said packet rate to a respective base station of the plurality of base stations; and

data terminal for transmitting and receiving data to and from the base station with said assigned packet rate,

wherein said base station comprises:

means for receiving packet rate from said mobile station,

means for determining number of frames for continuous transmission for said each packet rate,

means for transmitting said number of frames thus determined to said mobile station so that communication with said mobile station is carried out with a determined packet rate and the determined number of frames, and,

wherein a short packet transmission time is assigned when a high transmission rate packet channel is selected, and a long packet transmission time is assigned when a low transmission rate packet channel is selected.

13. (Previously Presented) A mobile communication system having a plurality of radio packet channels having different transmission rate from each other between each of a plurality of base stations and a mobile station, said mobile station comprising:

means for measuring a signal quality of a receive signal from each of the plurality of base stations;

means for assigning packet rate relating to said signal quality thus measured;

means for transmitting said packet rate to a respective base station of the plurality of base stations; and

data terminal for transmitting and receiving data to and from the base station with said assigned packet rate,

wherein said base station comprises:

means for receiving packet rate from said mobile station,

means for determining number of frames for continuous transmission for said each packet rate,

means for transmitting said number of frames thus determined to said mobile station so that communication with said mobile station is carried out with a determined packet rate and the determined number of frames, and

wherein a small number of frames for continuous transmission and a large amount of data in each frame are assigned when a high transmission rate packet channel is selected, and a large number of frames for continuous transmission and a small amount of data in each frame are assigned when a low transmission rate packet channel is selected, so that data amount to be transmitted is uniform irrespective of selected transmission rate of a packet channel.

14. (Previously Presented) A mobile communication system having a plurality of radio packet channels having different transmission rate from each other between each of a plurality of base stations and a mobile station, said mobile station comprising:

means for measuring a signal quality of a receive signal from each of the plurality of base stations;

means for assigning packet rate relating to said signal quality thus measured;

means for transmitting said packet rate to a respective base station of the plurality of base stations; and

data terminal for transmitting and receiving data to and from the base station with said assigned packet rate

wherein said base station comprises:

means for receiving packet rate from said mobile station,

means for determining number of frames for continuous transmission for said each packet rate, and

means for transmitting said number of frames thus determined to said mobile station so that communication with said mobile station is carried out with a determined packet rate and the determined number of frames,

wherein a small number of frames for continuous transmission and a large amount of data in each frame are assigned when a high transmission rate packet channel is selected, and a large number of frames for continuous transmission and a small amount of data in each frame are assigned when a low transmission rate packet channel is selected, so that data amount to be transmitted is uniform irrespective of selected transmission rate of a packet channel, and,

wherein said base station, upon finishing transmission/reception of a number of continuous frames to/from said mobile station, begins transmission/reception of said number of continuous frames to/from a next mobile station, so that said mobile station is switched recursively.

·
·
·
·
·

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.